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## (54) PRODUCTION OF LPG HAVING HIGH OLEFIN CONCENTRATION AND HIGH QUALITY GASOLINE

## (57)Abstract:

PURPOSE: To produce LPG having high propylene and butylene concentrations and gasoline having high a octane number by catalytic conversion.

CONSTITUTION: This method for producing the LPG and the gasoline comprises bringing a pre-heated hydrocarbon raw material into contact with an acidic solid catalyst containing high silica zeolite (ZRP) containing rare earth elements and having pentasil structure, rare earth element-Y zeolite (REY) and high-silica Y zeolite, at approximately 480-550° C, under approximately 130-350 Kpa pressure, at 1-150/hour weight space velocity, in 4-15 ratio of catalyst/oil and in (0.05:1) to (0.12:1) weight ratio of vapor to the rare material in a riser or a fluid bed reactor.

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